



DATE: 04/04/2002 PATENT APPLICATION: US/09/424,840B TIME: 11:40:23

Input Set : A:\100564-09049.txt

Output Set: N:\CRF3\04032002\14210	
3 <110> APPLICANT: Berchtold, Peter 4	ED
32 <221 NAME STATE STATE	48
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43 Thr Leu Ser Leu Ash Cys III value 30 25 44 20 26 tot tgg aga tgg atc cgg cag tot cca ggg aag gga cta gag tgg att 46 tot tgg aga tgg atc cgg cag tot cca ggg aag gga cta gag tgg att 47 Ser Trp Arg Trp Ile Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile 47 Ser Trp Arg Trp Ile Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile 48 49 40 40 40 40 40 40 40 40 40 40 40 40 40	144
47 Ser Trp Arg Trp He Arg Clark 40 48 35 50 ggg gat atc tct tat agt ggg agt acc aag tac aaa ccc tcc ctc agg 51 Gly Asp Ile Ser Tyr Ser Gly Ser Thr Lys Tyr Lys Pro Ser Leu Arg 51 Gly Asp Ile Ser Tyr Ser Gly Ser Thr Lys Tyr Lys Pro Ser Leu Arg 60 55	192
51 Gly Asp Tie Ser Tyr 555 55 60 55 60 55 55 55 60 55 55 60 55 55 60 55 60 55 60 55 60 55 60 55 60 55 60 55 60 55 60 55 60 55 60 60 60 60 60 60 60 60 60 60 60 60 60	240
55 Ser Arg Val Thr Led Ser Val Thr Led Ser Val Thr Ser Val Thr Led Ser Val Thr Led Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala 59 Lys Leu Asn Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala 95	288
59 Lys Leu Asn Ser Val Thr Ard 190 90 60 85 62 cga gtc ttg ccc ttt gac ccg atc tcg atg gac gtc tgg ggc aaa ggg 63 Arg Val Leu Pro Phe Asp Pro Ile Ser Met Asp Val Trp Gly Lys Gly	336

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110
                                   105
              100
                                                                         357
64
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67 Thr Thr Val Thr Val Ser Ser
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71 <210> SEQ ID NO: 2
72 <211> LENGTH: 119
73 <212> TYPE: PRT
74 <213> ORGANISM: Homo sapiens
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82 Thr Leu Ser Leu Asn Cys Thr Val Ser Gly Arg Ser Ile Ser Gly Tyr
                                    25
86 Ser Trp Arg Trp Ile Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile
                                40
90 Gly Asp Ile Ser Tyr Ser Gly Ser Thr Lys Tyr Lys Pro Ser Leu Arg
                            55
94 Ser Arg Val Thr Leu Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu
                                            75
                        70
 98 Lys Leu Asn Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
                                        90
                   85
 102 Arg Val Leu Pro Phe Asp Pro Ile Ser Met Asp Val Trp Gly Lys Gly
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 111 <211> LENGTH: 333
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 118 <223> OTHER INFORMATION:
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                                          10
                      5
 126 acc atc tct tgt tct ggg agc agc tcc aac atc aga agt aat cct gtt
                                                                             96
 127 Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Arg Ser Asn Pro Val
  130 age tgg tat cae cag gte cea gge acg gee eec aaa ete ete ate ttt
                                                                            144
  131 Ser Trp Tyr His Gln Val Pro Gly Thr Ala Pro Lys Leu Leu Ile Phe
                                  40
  134 ggt agt cat cag cgg ccc tca ggg gtc cct gac cga ttc tct ggc tcc
                                                                            192
  135 Gly Ser His Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser
                              55
  138 aag tog ggo acc toc goo toc otg goo atc ogt ggg otc caa tot ggg
                                                                            240
  136
  139 Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Arg Gly Leu Gln Ser Gly
  140 65
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142	gat	gct	ggt	gac	tat	tac	tgt	gca	aca	tgg	gat	gac	ggc	ctc	aat	ggt	288	8
143	Asp	Ala	Gly	Asp	Tyr	Tyr	Cys	Ala	Thr	Trp	Asp	Asp	Gly	Leu	Asn	Gly		
144					85					90					95			
							acc										33	3
147	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu	Ser	Gln	Pro			
148				100					105					110				
151	151 <210> SEQ ID NO: 4 152 <211> LENGTH: 111																	
152	<21	1> L	ENGT	H: 1	11													
153	<21	2> T	YPE:	PRT														
154	<21	3> 01	RGAN:	ISM:	Homo	sap	piens	5										
156	<40	0> S	EQUE	NCE:	4													
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159	1				5					10					15			
162	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Arg	Ser	Asn	Pro	Val		
163				20					25					30				
166	Ser	Trp	Tyr	His	Gln	Val	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu	Ile	Phe		
167			35					40					45					
170	Gly	Ser	His	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser		
171		50					55					60						
174	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Arg	Gly	Leu	Gln	Ser	Gly		
175	65					70					75					80		
178	Asp	Ala	Gly	Asp	Tyr	Tyr	Cys	Ala	Thr	Trp	Asp	Asp	Gly	Leu	Asn	Gly		
179					85					90					95			
182	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu	Ser	Gln	Pro			
183				100					105					110				
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187	<21	L> LI	engti	H: 30	59													
188	<212	2> T	YPE:	DNA														
189	<213	3> 01	RGAN	ISM:	Homo	sap	piens	3										
191	<220)> FI	EATUI	RE:														
192	<22	l> N2	AME/I	KEY:	CDS													
193	<222	2> L(CAT	ON:	(1)	(36	59)											
194	<223	3> 0:	THER	INF	ORMA!	rion	:											
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	_			_			tct					-	_				4	8
		Val	Lys	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro		Arg		
200	1				5					10					15			
							gca										91	5
203	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr		
204				20					25					30				
							cag										14	4
	Ala	Met		Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val		
208			35					40					45					
							gga										192	2
	Ala		Ile	Ser	Tyr	Asp	Gly	Ser	Asn	Lys	Tyr		Ala	Asp	Ser	Val		
212		50					55					60						
							tcc										240	J
	_	Gly	Arg	Phe	Ala		Ser	Arg	Asp	Asn		Lys	Asn	Thr	Leu	_		
216	65					70					75					80		

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Input Set : A:\100564-09049.txt

218 ctg caa atg aac agc ctg aga gct gag gac acg gct gtg tat tac tgt 219 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys	288												
220 gcg aga gcg ctg ggg agc tgg ggg ggt tgg gac cac tac atg gac gtc 222 gcg aga gcg ctg ggg agc tgg ggg ttgg gac cac tac atg gac gtc 223 Ala Arg Ala Leu Gly Ser Trp Gly Gly Trp Asp His Tyr Met Asp Val	336												
224 100 105 110 226 tgg ggc aaa ggg acc acg gtc acc gtc tcc tca 227 Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser	369												
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232 <211> LENGTH: 123													
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$\frac{10}{10}$													
242 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr													
$\frac{2}{3}$ 20 25 30													
246 Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val													
247 35 40 45 250 Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val													
250 Ala val lie sel lyl Asp Gly Sel Ash 275 172 172 182 182 183 275 172 172 183 183 183 183 183 183 183 183 183 183													
254 Lys Gly Arg Phe Ala Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr													
255 65 70 75													
258 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys													
259 85 90 ⁹³													
262 Ala Arg Ala Leu Gly Ser Trp Gly Gly Trp Asp His Tyr Met Asp Val													
263 100 105 110 266 Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser													
266 Trp Gry Lys Gry III. III. Var III. Var 100 200 200 200 200 200 200 200 200 200													
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384 1	96												
286 acc atc tct tgt tct gga agc agc tcc aac atc gga agt aat act gta 287 Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val													
288 20 25 30													
200 and tag tag cag cag ctc cca gga acg gcc ccc aaa ctc ctc atc tat	144												
291 Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu 11e Tyr													
292 35 40 45	192												
294 agt aat aat cag cgg ccc tca ggg gtc cct gac cga ttc tct ggc tcc	2,2												

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				_													
295	Ser	Asn	Asn	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	
296		50					55					טט					0.4.0
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299	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln	ser	GIU	
300	65					70					75					80	288
302	gat	gag	gct	gat	tat	tac	tgt	gca	gca	tgg	gat	gac	agc	ctg	aat	ggt	200
303	Asp	Glu	Ala	Asp		Tyr	Cys	Ala	Ala	Trp	Asp	Asp	ser	Leu	95	GIY	
304					85					90		-+-	~~+	~~~			333
306	tgg	gtg	ttc	ggc	gga	ggg	acc	aag	ctg	acc	gtc	cta	99 L	Gln	Dro		333
	Trp	Val	Phe		GIY	GTÄ	Thr	гаг	Leu	THE	vaı	Leu	GLY	110	110		
308 100 100																	
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312 <211> LENGTH: 111 313 <212> TYPE: PRT																	
					Uome	. cai	nien	2									
				ISM:) Saj	oren.	5									
310	V21	U2 0. V21	υρυ Thr	NCE:	Pro	Pro	Ser	Ala	Ser	Glv	Thr	Pro	Gly	Gln	Arg	Val	
319		Val	1111	0111	5	110				10			_		15		
373	Thr	Tle	Ser	Cvs	Ser	Glv	Ser	Ser	Ser	Asn	Ile	Gly	Ser	Asn	Thr	Val	
323				20					25					30			
326	Asn	Trp	Tvr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu	Ile	\mathtt{Tyr}	
327			35					40					40				
330	Ser	Asn	Asn	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	
331		50					55					60					
334	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln	Ser	Glu	
335	65					70					75					60	
338	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	ser	Leu	ASI	Gly	
339					85	_		_	_	90	**- 7	T	61	Cln	95 Bro		
342	Trp	Val	Phe			Gly	Thr	ьуs	Leu	Thr	val	Leu	СТА	110	PIO		
343				100					105					110			
				D NO													
				H: 3				•									•
				DNA :MSI		O 63	nian	•									
			'EATU		нош	0 34	PICI										
				KEY:	CDS												
				ION:			69)										
				INF													
357	<40	0> 5	EOUE	NCE:	9												
358	cad	at.a	r aaa	cta	cto	gag	tct	ggg	g gga	ggc	: ttg	gtt	cac	ccc	ggg	ggg	48
359	Gln	Val	Lys	Leu	Leu	Glu	Ser	Gly	g Gly	Gly	Let	ı Val	. His	Pro	, ста	Gly	
360	1				5					10					TO		0.6
362	tcc	cto	gaga	cto	tct	. tgt	gca	gco	tct	gga	ttt	acg	, ttt	gac	aac	ttt	96
363	Ser	Leu	ı Arg	, Leu	Ser	Cys	: Ala	Ala	a Sei	: Gly	Phe	e Thr	Phe	e Asp	Asr	Phe	
364				20					25					30			144
366	gcc	ato	gago	tgg	gto	: cgc	cag	, gct	CC	ggg	j aaq	g ggg	cto	gag	rgg	gtc	144
367	' Ala	Met	: Sei	rrr	val	. Arg	j Glr	ı Ala	a Pro	o Gly	Lys	s GT	Lei	ı GIL	ı TT	Val	
368	3		35					40				_ +	45	. ~~	. +~	ata	192
370) tca	ggo	att	. agt	. ggt	: ggt	ggt:	ct1	נ לנק	g aca	a ca	ا cac	, yea	ı yat		gtg	1,2

VERIFICATION SUMMARY

DATE: 04/04/2002 TIME: 11:40:24

PATENT APPLICATION: US/09/424,840B

Input Set : A:\100564-09049.txt